DERWENT-ACC-NO: 1998-121013
DERWENT-WEEK: 200128

TITLE: Copying method for magnetic recording medium - forming recesses and
protrusions on surface substrate of master carrier formed from ferromagnetic
material and bringing master into contact with recording medium
INVENTOR: ISHIDA, T; MIYATA, K ; RYONAI, H ; SUGITA, R ; TOHMA, K ; YOSHIMOTO,
K
PATENT-ASSIGNEE: MATSUSHITA ELECTRIC IND CO LTD[MATU], MATSUSHITA DENKI
SANGYO KK[MATU]
PRIORITY-DATA: 1997JP-0133897 (May 23, 1997) , 1996JP-0191889 (July 22, 1996)
, 1997JP-0075703 (March 27, 1997) , 1997JP-0124257 (May 14, 1997)
PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2000064527 A	November 6, 2000	N/A	000	G11B 005/86
	January 29, 1998	J	099	G11B 005/86
WO 9803972 A1	February 13, 1998	N/A	012	G11B 005/86
JP 10040544 A	October 9, 1998	N/A	011	G11B 005/84
JP 10269566 A	November 24, 1998	N/A	012	G11B 005/84
JP 10312535 A	December 4, 1998	N/A	008	G11B 005/84
JP 10320768 A	October 11, 1998	N/A	000	G11C 011/00
TW 342495 A	May 12, 1999	E	000	G11B 005/86
EP 915456 A1	May 12, 1999	N/A	000	G11B 005/86

CN 1216624 A
DESIGNATED-STATES: CN KR SG US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT S
E DE FR GB
APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR2000064527A	N/A	1997WO-JP02519	July 18, 1997
KR2000064527A	N/A	1998KR-0706392	

August 17, 1998
KR2000064527A Based on WO 9803972
N/A
WO 9803972A1 N/A 1997WO-JP02519
July 18, 1997
JP 10040544A N/A 1996JP-0191889
July 22, 1996
JP 10269566A N/A 1997JP-0075703
March 27, 1997
JP 10312535A N/A 1997JP-0124257
May 14, 1997
JP 10320768A N/A 1997JP-0133897
May 23, 1997
TW 342495A N/A 1997TW-0110062
July 17, 1997
EP 915456A1 N/A 1997EP-0930855
July 18, 1997
EP 915456A1 N/A 1997WO-JP02519
July 18, 1997
EP 915456A1 Based on WO 9803972
N/A
CN 1216624A N/A 1997CN-0193995
July 18, 1997
INT-CL_(IPC): G03F007/00; G11B005/596 ; G11B005/82 ;
G11B005/84 ;
G11B005/86 ; G11C011/00
ABSTRACTED-PUB-NO: WO 9803972A
BASIC-ABSTRACT: The copying method involves forming recesses and
protrusions
corresponding to information signals on the surface substrate of
a master
carrier. Part of this surface is made of ferromagnetic material.

The surface of the master information carrier is brought into
contact with the
surface of a sheet-type or disc-type magnetic recording medium
with a
ferromagnetic thin film or a ferromagnetic powder coating layer
formed on its
surface. Magnetisation patterns corresponding to the protrusions
and recesses
are therefore recorded on the recording medium.
CHOSEN-DRAWING: Dwg.6/21
DERWENT-CLASS: P84 T03
EPI-CODES: T03-A01C1; T03-A01X; T03-A02B9; T03-A07B3A;

DERWENT-ACC-NO: 1985-020236
DERWENT-WEEK: 198504

TITLE: Hot pressed ceramic magnetic disc substrate - has low porosity and good
thermal expansion matching with magnetic films
INVENTOR: ENDO, J; KOIKE, Y ; YAMADA, H
PATENT-ASSIGNEE: HITACHI METALS LTD[HITK]
PRIORITY-DATA: 1983JP-0131197 (July 19, 1983)
PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 131895 A	January 23, 1985	E	038	N/A
DE 3462961 G	May 7, 1987	N/A	000	N/A
EP 131895 B	April 1, 1987	E	000	N/A
JP 60022733 A	February 5, 1985	N/A	000	N/A
JP 87050887 B	October 27, 1987	N/A	000	N/A

DESIGNATED-STATES: DE FR GB NL DE FR GB NL
CITED-DOCUMENTS: No-SR.Pub; GB 1257281 ; GB 1397817 ; GB 1493160 ; US 3719525
APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
EP 131895A	N/A	1984EP-0108082	July 10, 1984
JP60022733A	N/A	1983JP-0131197	July 19, 1983

INT-CL_(IPC): G11B005/82
ABSTRACTED-PUB-NO: EP 131895A
BASIC-ABSTRACT: The substrate is mfd. from Al2O3 and/or ZrO2 base ceramics by
hot pressing or hot isostatic pressing. It has a porosity not more than 0.1%;
a thermal expansion coefft. 70-110 x 10 power -7 deg.C. from room temp. to 400
deg.C.; and a vickers hardness not less than 1200. It pref.has an average
roughness not more than 0.01 micron and a short range undulation not more than
0.06 micron/4 mm.

ADVANTAGE - The discs have good expansion coefft. matching with magnetic films,

avoiding cracks or breakages, and high density hardness and surface precision.
Small discs may be used with high density recording, and discs are operated
with a small flying head height, e.g. 0.1 micron. The contact-stop-start
durability may be over 110,000 cycles until output declines by 10%.

ABSTRACTED-PUB-NO: EP 131895B
EQUIVALENT-ABSTRACTS: The substrate is mfd. from Al2O3 and/or ZrO2 base
ceramics by hot pressing or hot isostatic pressing. It has a porosity not more
than 0.1%; a thermal expansion coefft. 70-110 x 10 power -7 deg.C. from room
temp. to 400 deg.C.; and a vickers hardness not less than 1200. It pref.has an
average roughness not more than 0.01 micron and a short range undulation not
more than 0.06 micron/4 mm.

ADVANTAGE - The discs have good expansion coefft. matching with magnetic films,
avoiding cracks or breakages, and high density hardness and surface precision.
Small discs may be used with high density recording, and discs are operated
with a small flying head height, e.g. 0.1 micron. The contact-stop-start
durability may be over 110,000 cycles until output declines by 10%.
CHOSEN-DRAWING: Dwg.1/1 Dwg.1/1
DERWENT-CLASS: L02 L03 T03
CPI-CODES: L02-G07A; L03-B02B;
EPI-CODES: T03-A01B; T03-A01C; T03-N01;